



G^{Plus} Communications

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Via Email and Certified Mail

September 8, 2021

Hye Jin Kim
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Dear Hye Jin Kim,

G+ Communications LLC (“G+”) is the owner of all rights, title, and interest in several patents originally show/hideassigned to ZTE Corporation, one of the leading contributors to the 5G standard. G+’s patent portfolio contains worldwide patent assets including patents in multiple jurisdictions as part of a family of standard essential patents (“SEPs”).

Below is a list of G+’s patents that have been declared essential (as that term is defined by ETSI) to practicing the 3GPP LTE Standard (“G+ 5G Essential Patents”):

Pat./Pub. No.	Title	3GPP LTE Standard	ISDL Number	Corresponding Patents
U.S. 8,582,605	Method and Device for Mapping the Initial Location of Downlink Pilot	LTE1063 5G TS 36.211 (Release 11, 16)	ISDL-201011-019 ISDL-201910-019	BRPI0821863 HK1145571 EP2249490 CA2713900 RU2466499 JP5309383 CN101227232

Unlink U.S. 8,989,109	Pre-Coding Method and Apparatus Based on Mixed Multiplexing Demodulation Reference Signals	Release 14, 15, 16 TS 36.213 TS 38.211 TS 38.212 TS 38.213 TS 38.214 TS 38.912	ISDL-201910-058	RU2527930 EP2536231 JP5693614 KR101472398 CN102158319 MX2012009255
U.S. 9,859,960 U.S. 10,250,305	Method and System for Indicating Transmission Parameter	Release 15, 16 TS 36.212 TS 36.213 TS 38.211 TS 38.331 TS 38.212 TS 38.213 TS 38.214	ISDL-201910-019	EP2503825 RU2530304 JP5513675 KR101418807 CN101834629 BR112012017102
U.S. 8,903,005	Method for Sending Channel Information, and a Terminal, a Base Station, and an LTE-A System	Release 8 to 16 TS 36.213 TS 38.211 TS 38.331 TS 38.212 TS 38.214	ISDL-201910-047	RU2589299 EP2608440 JP5883867 KR101803122 CN102013953 MX2013001781 BR112013002947
U.S. 9,184,881	Method for Feeding Back Confirmation Information on a Physical Uplink Shared Channel	Release 15, 16 TS 36.213 TS 38.211 TS 38.331 TS 38.212 TS 38.213 TS 38.214	ISDL-201910-019	EP2271163 EP3358771 CN101267284
U.S. 10,594,443	A Transmitting Method, Receiving Method and Nodes for HARQ Information	Release 15, 16 TS 36.212 TS 36.302 TS 38.331 TS 38.211 TS 38.212 TS 38.213 TS 38.214	ISDL-201809-194	EP3327968 CN106385309
U.S. 9,398,581	Method and Device for Transmitting Downlink Control Information	Release 8 to 15 TS 36.331 TS 36.214 TS 36.211 TS 36.212 TS 36.213	ISDL-201911-005	EP2804433 CN103199974
U.S. 8,693,415	Method and Apparatus for Sending Rank Indication Information, Receiving	LTE1063 5G TS 36.213 TS 36.212 TS 36.211 TS 38.212	ISDL-201011-019 ISDL- 201810-016 ISDL- 201910-019	EP2273817 CN101330307 JP2011520397

	Method and Apparatus Thereof	TS 38.213		
U.S. 10,736,130	Method and Device for Uplink Control Signal Transmission User Terminal, and Storage Medium	5G TS 36.211 (Release 13)	ISDL-201809-273	CN107295665
U.S. 8,761,776	Cell Reselection Method and Terminal	Release 9 to 16 TS 36.304 TS 36.331 TS 38.133 TS 38.304 TS 38.331 TS 45.008	ISDL-201910-019	RU2476011 JP5912528
CN101540658	Downlink Precoding Indicating Method	LTE1063 5G	ISDL-201507-036 ISDL-201911-035	
U.S. 8,649,349	Method and System for Reporting Power Headroom Report (PHR) in Carrier Aggregation Scheme	Release 15, 16 TS 36.213 TS 36.321 TS 38.321 TS 38.331 TS 38.213	ISDL-201910-058	EP2472942 CN102316569
U.S. 10,448,430	Random Access Method, Device, and System	Release 15, 16 TS 38.211 TS 38.212 TS 38.213 TS 38.214 TS 38.300 TS 38.321 TS 38.331	ISDL-201809-194	EP3316651 CN106304392
U.S. 2017/0265223	Access Method and Apparatus for User Equipment	5G	ISDL-201809-245	EP3193556 CN105472761
U.S. 2019/0045426	Resource Allocation Method and Apparatus for System Access	5G	ISDL-201809-269	EP3419375 CN107105504

Products of Samsung Co., Ltd. and its affiliates (“Samsung”) infringe one or more claims of the G+ 5G Essential Patents and thus require a license (“Samsung 5G-Enabled Products”). The Samsung 5G-Enabled

Products include, but are not limited to, the Galaxy Note20 5G, Galaxy S20 FE 5G, Galaxy S21 5G, Galaxy A Series 5G, and Galaxy Z Fold2 5G devices (all of these products are offered and sold on a worldwide basis, including for example in the US, China, Europe and Brazil). Included with this letter are evidence of use charts on the following U.S. Patents: 8,761,776B2; 9,859,960B2; 8,582,605B2; 8,903,005B2; 10,448,430B2; and 9,184,881B2. These charts are not exhaustive and G+ has issued patents around the world, including in China, Europe (with patents in Germany, for example) and Brazil. G+ is constantly expanding its patent portfolio therefore the listing above may not complete.

G+, in conformance with ETSI's IPR Policy, is prepared to grant Samsung an irrevocable non-exclusive license to G+ 5G Essential Patents on terms that are Fair, Reasonable, and Non-Discriminatory ("FRAND"). We appreciate your time in evaluating this opportunity and look forward to your response no later than thirty days from receipt of this letter.

Best regards,

A handwritten signature in black ink, appearing to read 'J Pitcock', is written over a horizontal line.

Jeremy Pitcock
Manager
G+ Communications LLC